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TAXONOMY OF HELENIUM SECT. ACTINEA (ASTERACEAE)

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ABSTRACT

Actinea Juss. is reduced in status to a section of Helenium L., and a taxonomic treatment is presented for the three presently recognized taxa: Helenium radiatum (Less.) Bierner (= H. alternifolium [Sprengel] Cabrera), H. donianum (Hook. & Arn.) Cabrera var. donianum, and H. donianum var. linearifolium (Kuntze) Bierner. The latter, which was originally described as a variety of Actinea heterophylla Juss. (= H. radiatum), has not been recognized as a valid biologic entity since its description. Sectional relationships and sectional disjunctions are also discussed. This treatment takes into account all known morphologic, cytologic, and chemical data.

INTRODUCTION

Helenium L. sect. Actinea (Juss.) Bierner comprises three taxa confined to Argentina and Uruguay. Originally recognized as a separate genus (Jussieu 1803), it was treated by Lessing (1832) and Candolle (1836) as a subgenus of Cephalophora Cav. (= Helenium L. sect. Cephalophora [Cav.] O. Hoffm. of Chile and Peru). Later, Hoffmann (1894) and Cabrera (1941) recognized these taxa as part of Helenium, but they did not separate them at the subgeneric level.

For many years the names *Actinea* and *Actinella* Pers. (a superfluous name for the former) were applied to a large number of taxa in both South and North America that are now placed in the closely related genus *Hymenoxys* Cass. (including *Tetraneuris* E. Greene). However, the type species, *Actinea heterophylla* (= Helenium radiatum), unquestionably belongs to Helenium.

SECTIONAL RELATIONSHIPS

The taxa of South America originally described in *Actinea* and *Cephalophora* (excluding those that belong to *Hymenoxys*) generally have been recognized as congeneric with *Helenium* (Hoffmann 1894, Cabrera 1941, Bierner 1971), but until recently (Bierner 1978 and this paper), no effort was made to separate them into distinct sections of *Helenium*. Lessing (1832) and Candolle (1836), however, treated the taxa of *Cephalophora* and *Actinea* (the latter as *Actinella*) as congeneric and separated them at the infrageneric level, but they recognized *Cephalophora* as a genus distinct from *Helenium*.